

**BASE STATION AND MOBILE STATION**

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**Abstract**

**PROBLEM TO BE SOLVED:** To provide a base station and a mobile station with which interference does not occur by simultaneously receiving up frames from mobile stations.

**SOLUTION:** The base station for communicating with plural mobile stations is provided with a first transmission means 4 for transmitting a first down frame to the respective mobile stations, a reception means 6 for receiving up frames from the respective mobile stations and a first calculation means 8 for calculating second time showing propagation delay time for each mobile station on the basis of first time from reference time, when the first down frame is transmitted, to the reception of the reference position of the up frame due to the reception means. Then, the base station is provided with a second calculation means 10 for calculating the time of difference between every second time and reference delay time which is not shorter than the second time of all the mobile stations, and a second transmission means 12 for transmitting a second down frame to each mobile station while including a transmission timing symbol showing the quantity of delay from the reception of a signal to be the transmission reference of the second down frame at each mobile station to the transmission of the up frame on the basis of every differential time.

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